

INDEX TO THE FORTY-FIRST VOLUME OF THE MINING JOURNAL.

MEETINGS OF MINING COMPANIES, &c.

Almillos, 896; Almada and Tinto, 289, 294, 467, 492, 1084;
1107; Anglo-Argentine, 948, 952; Anglo-Brazilian, 372;
Anglo-Italian, 445, 896; Arica, 348; Ashcroft, 368, 866;
Australasian, 680; Australian United, 759.
Ballynagar, 1012; Battle Mountain, Nevada, 9; Bedford
United, 741, 1131; Birdseye Creek, 535; Black Caelan, 380,
392; Blue Hills, 196, 765, 1059; Bog, 871; Botallack, 133,
420, 580; Brynystwith, 962; Brookwood, 609, 938; Bron-
ford, 39, 69, 809, 673; Bradda, 216, 833, 1011; Brazilian
Street Railway, 221; Brynastwith, 64; Brynmor, 1156.
Cae Gynon Lead, 55, 716; Caldwell, 152, 177, 725, 769;
Caledonian Gold, 981; Capel Ban Hagios, 445; Castle an
Dinas, 609; Cafartha Lead, 328; Cardigan Bay, 536; Carn
Brea, 49, 765; Carn Camborne, 29, 348, 609, 901; Cape Cop-
per, 333, 726, 1108; Carn Gwiler, 1084; Caglar, 1130;
Cashwell, 357; Cargill, 357; Cefn Brynno, 260; Cefn Con-
sols, 172, 1058; Central American, 467; Chiverton Moor,
673, 1011; Chontales, 322, 425, 848; Chylin Tin, 360; Clara
Consols, 337; Clifton Silver, 988; Coed Madog Slate, 692;
Cornwall and Devon Mines' Association, 731; Colorado
Terrible Lode, 512, 1010; Connor, 260; Cook's Kitchen,
49, 348; Colonial Bank, 3, 579; Grenver and Wheel Abrah-
am, 128, 174, 513, 716; Cuddra, 239; Cwm Ricket Lead,
730; Cwm Dyfor Lead and Silver, 103, 808; Cwm Vron
Lead, 43, 513.
Devon Great Consols, 309, 395, 1041; Dolcoath, 133, 309, 716,
901, 1108, 1124; Dolwen, 69, 1084; Dominion of Canada
Ore Refinery, 560; Don Pedro North del Rey, 239, 259;
Drake Walls, 89; Dudley Mining Engineers, 1006.
East Sneyd, 492, 962; East Sneyd Hill, 1108; East Corn-
wall St. Vincent, 1156; East Van, 940; East Caradon, 69,
348, 628; East Carn Brea, 3, 368; East Cwm Vron, 579;
East Lovell, 172, 177, 468, 765; East Pool, 29, 216, 491, 619,
809, 937, 1028; East Llangynor Lead, 284; East Wheel
Seton, 877; East Plynlimon, 64; East Black Craig, 463;
East Wheel Basset, 289; East Chiverton, 328; Eberhardt
and Aurora, 284, 604, 916, 957, 1035; Eilpe, 420, 445; E-
conomic Life Assurance, 259; El Chico Silver, 152; English
and Australian, 102, 735; Esgair Lir, 348, 866; Excelsior,
260; Eym, 216.
Falcon Cliff, 672; Fawcett Lead, 536; Ferguson Gold, 939;
Florence and Tonkin United, 285; Florida Silver Lead,
248, 866; Fortuna, 284, 896; Frank Mills, 109, 697, 1011;
Frontino and Bolivia Gold, 676.
Gawton Copper, 8; General Mining Association, 368, 559;
General Mining Company for Ireland, 492, 1083; General
Brazilian, 239, 259, 604, 1059; Geological Society of London,
60, 136, 190, 1029; Gilfach Silver Lead, 109; Gneil Colliery,
760; Gold Mining Company of Yuba, 24, 282, 736; Governor
and Company of Copper Miners, 260, 283; Gorsedd and
Celyn Level, 50, 680; Great Laxey, 239, 304, 516, 895; Great
East Foxdale, 1077; Great Wheel Vor, 196, 216, 529, 536,
828, 847, 1108, 1131; Great Western Copper, 23, 304, 672, 828,
963; Great South Lead, 69, 265, 318; Great Royalton, 69, 392, 807;
Great South Tolgus, 69, 265, 318; Great North Laxey, 304;
Great West Chiverton, 49; Great Caradon, 348, 765; Great
Western Colliery Company, 716; Great Wheel Lovell, 260,
617, 939; Great Foxon, 1083; Great Snaefell, 627;
Gunnlake, 196; Gwyddyr Park, 619, 628.
Hafodau and Caeau, 23; Harmony and Montague, 328;
Harlech Silver Lead, 152, 463; Hendoll Slate and Slab,
196, 420; Herodafon, 133, 541, 958; Hingston Down, 401,
809; Hobs Hill, 784; Holyhead Lead, 147, 177.
Imperial Ottoman, 467, 717, 760; Imperial Brazilian, 1059;
Institution of Civil Engineers, 40, 458; Institution of
Mechanical Engineers, 99, 298, 665, 978; Iron and Steel
Institute, 278.
Javali Gold, 283, 940.
King Arthur, 304; King Silver and Copper, 871.
Laguna Silver, 829; Levant, 216, 1148; Linares, 244, 895;
Llynwern, 69, 1036; London and County Bank, 84, 672;
Lovell, 322; Lusitanean, 283.
Macao Gold Washing, 339; Marke Valley, 29, 309, 609, 901;
Midland Institute of Mining Engineers, 121, 438, 904, 944;
Midland Iron Company, 122; Miners' Conference,
1006; Mining Company of Ireland, 4; Mining
Association of Cornwall and Devon, 666; Mining Assoc-
iation of Great Britain, 49, 146, 358; Midland Steam-Boil-
ers' Assurance Institution Company, 743; Mineral Hill
Silver, 916; Minera Union, 741; Mold Mines, 940; Monte
Albo, 633, 653; Mywyddir Ore, 103, 128, 355.
Nant-y-Glo and Bialat Ironworks, 1040; Nant-y-Glo Provincial
Bank of England, 396; Nerbudda Coal and Iron, 467;
New Brynastwith, 133; New Atlanta, 1026, 1084; New
Hendra, 1166; New Devon Consols, 1131; New Crow Hill,
239; New Wheel Seton, 765; New Great Consols, 672;
New Rosario, 781; New Wheel Charlotte, 513; New Pem-
broke, 216, 609, 1011; New Wheel Lovell, 157, 945; New
Clifford, 9, 364; New Treawny, 239; New Victoria, 348;
New Gwilyngydd, 109; New Central Snaibench, 283, 321;
New Quebrada, 328, 420, 603; North Rowker, 260, 560,
848, 1056; North Treskerby, 103; North Levant, 157, 765;
North of England Institute of Engineers, 111, 204, 499;
North Wheel Lovell, 128, 657; North Wheel Jane, 133;
North Pool, 69, 934; North America Gold, 1083; North
Wheel Lovell, 1012; North Snaibench, 1021; North Tan-
kerville, 1131; North Hendre, 934; Northern Mining In-
stitute, 291, 493; Northern Silver Lead and Blende, 348.
Old Treburget, 171, 512; Old Bathol, 963.
Pacific, 64; Panulillo Copper, 1076; Parya Mountain, 628;
Patent Gas, 216; Pen Allt Silver Lead, 321, 513, 633; Pen-
taurens United Gold, 196; Peak Downs, 348, 866; Pen-
rhaith Silver Lead, 916; Penrhaith Vor, 69, 633; Pen-
rhaith, 189, 677, 941; Penrhyn, 152, 866; Penrhy, 871;
Phonix, 123, 609; Pinto Silver, 673; Pitobury, 916;
Plumas Gold, 157; Plynlimon Lead, 468; Polbreon,
239, 619, 981; Port Phillip and Colonial Gold, 64; Prince
of Wales, 172, 468, 739, 1132; Providence Mines, 265, 565,
853, 1146; Prussian Mining and Ironworks, 1126.
Queen, 444, 530, 371; Queenborough Chemical, 1028.
Reafada, 1077; Rhydyallog Silver Lead, 896; Richmond
Consolidated, 1060; Roche Consols, 128, 492, 808; Rose-
wall Hill and Ransom United, 216, 809, 820; Rose an-
Chiverton, 109; Rossa Grande, 402; Royal Institution of
Cornwall, 488; Russia Copper, 1069; Russian (Ysowsky)
Ironworks, 1028.
Sao Vicente, 568; Sandwell Park Colliery Company, 743;
Saturn Silver, 760, 872, 1053; Scottish Australian, 353,
1028; Sierra Buttes Gold, 848; Silver Plume, 1010; Snow-
drift Silver Mining Company, 800, 853; South Plumas
Gravel, 848; South Aurora Silver, 903; South Plumas
Gravel, 848; South Midland Institute, 28, 121, 212, 292, 6-6,
792, 1091; South Wheel Frances, 679, 759; South Darren,
468, 1048; South Carn Brea, 348, 697, 958; South Caradon,
89, 265, 473, 653, 853, 1068; South Wheel Croft, 133, 196;
South Condurrow, 152, 513, 918; South Wales Institute of
Engineers, 497, 933; South Merlyn, 109; South Stafford-
shire and East Worcestershire Institute of Mining En-
gineers, 59, 122, 239, 390, 506, 792, 904, 1115; South Ward,
109; Spurn Consols, 196; St. John del Rey, 535, 589, 1130;
St. Aubyn United, 138, 401; Steam Users' Association,
179, 475; Swansea Smelting and Silver, 916; Sweetland
Creek Gold, 401, 445.
Tamar Consols Silver Lead, 988; Tamar Valley, 9, 1058;
Tanquary, 536, 660; Tan-yr-Alit, 368, 866; Tankerville,
571; Terras, 316, 783; Trevarrack, 529; Trowetha, 216;
Trumpet Consols, 672; Tynllynne, 627.
United Mexican Gold, 372, 987; Utah Silver, 529, 1034.
Val Antigua Gold, 692; Van, 171, 372, 755; Van Consols,
472; Van Railway Company, 896, 940; Vancouver Coal,
&c., 463, 467, 988; Vannin Lead, 468; Victoria (London),
64; Virtuous Lady, 571; Vron United, 84, 807.
Wales Ironworks, 1107; West Canada, 467; West Chiv-
erton, 239, 579, 873; West Godolphin, 1083; West Rosewood,
29, 309, 609, 901; West Basset, 329; West Caradon, 691,
1107; West Wheel Frances, 69, 348; West Wheel Tre-
mayne, 239; West Esgair Lir, 691; West Great Work,
157; West Pant-y-Go, 492; West Tankerville, 371, 444, 512,
West Jewell, 988; West Kitty, 529; West Seton, 133, 517,
717, 934; West Drake Walls, 89; West Stiperstones Lead,
84; West Wheel Tolgus, 585; West Poibreen, 619, 981;
West Prince of Wales, 759; West Llangynog Silver Lead,
1023; Wheel Basset, 177, 492; Wheel Courtenay, 69;
Wheel Jane, 318, 697, 938; Wheel Kitty (St. Agnes), 128,
420, 1011; Wheel Mary Ann, 196, 497, 1084; Wheel Cre-
lake, 586; Wheel Margaret, 765; Wheel Gwambler, 348;
Wheel Osborne, 84, 541; Wheel Crebore, 660, 872; Wheel
Arthur, 765; Wheel Owsley, 157, 741, 1041; Wheel Tre-
lawny, 43, 567; Wheel Ugy, 9, 266, 579, 877; Wheel Agar,

905; Wheel Ida, 248, 765; Wheel Lucy, 988; Wheel Gren-
ville, 829; Wicklow Copper, 988, 1012; Wye, 1131.
Yorke Peninsula, 717; Yudanmutana, 467.

CORRESPONDENCE.

Accidental death assurance, 549
American mines, and foreign capital, 210; J. Ross Browne,
528; 532; R. Knapp, 751, 799, 822, 980
— mining times, 254; R. Knapp, 486
— mining speculation, H. H. Roche, 551, 822
— mining "experts"—the value of their opinion, 643,
667, 779; H. Sewell, 956; R. Knapp, 1173
Anglo-Australian United Gold Mining Company, 255
— Brazilian and Rossa Grande Gold Mines, 300
Antimony paint, J. Finnie, 275
Arizona Mines, J. T. Simpson, 215
Assurance of miners' lives, 549, 730
Australia, mining in, C. A. Powell, 188; T. Carpenter, 706
Bank of California as a middle man, 120
Bingham Canon, Utah, a trip to, H. S. Poole, 1146
Blast-furnaces, improvements in, 706
Boring machinery in metallic mines, G. W. Denys, 595; G.
Rickard, 799; 807; B. and Co., 862; 910, 979
Boards of conciliation between employers and employed, 142
Britannia Ironworks, Bedford, 17
Brazilian gold mining companies, the, 460, 486, 1146, 1173
Brooks' mines—mining shares, 103, 127
Buckley and Champion Mines, Nevada, J. H. Partridge, 254
Burling drill—mining by machinery, W. Wasley, 784; in
Sweden, W. Hoskin, 1074
Cardiganshire and Montgomeryshire, mining in, A. Francis,
88, 103, 151; 137, 232, 321, 344
Castle an Dinas tin mining district, R. Symonds, 412; T.
Brewer, 38, 49
Carn Brea Mines, and their management, 145
Canadian shores of Lake Superior, 930
Cape Copper Mining Company, 255; W. Woodfield, 823
California mines, and European capitalists, J. Borton, 188;
G. F. Parsons, 1005, 1028
Cefn Consols Mining Company, 763; F. R. Comyn, 780; 1005
Cerro de Pasco, and its silver mines, W. R. Butler, 387
China-clay, the staple manufacture of Cornwall, 863
Chiverton Moor Mining Company, 692; Ward and Little-
wood, 780; 843, 1005
Clara Consols Silver Lead Mining Company, W. Battye, 277
Coal, the supply in South Staffordshire, D. Jones, 38
— in South Africa, T. R. Jones, 38
— and iron in Sussex, 253, 738
— breaking down, 275
— cutting machinery, J. Rothery, 299, 342; W. Leatham,
822; S. Firth, 812; W. H. Chambers, 888
— calamity in West Germany, and its causes, 412
— and iron, important discovery of, J. A. Knipe, 459
— supply, our, and J. Bailey, 573; 730, 779, 842, 978;
W. Firth, 1003, 1027
— Commissioners' report, 750; Prof. Jevons on, 799; 955;
D. Jones, 1051; F. C. Danvers, 1081
— utilisation of, A. C. Chalmers, Porter and Co., Luckes,
Nash, and Co., 772
— miners, safety for, J. Deacon, 978
— mining, statistics of English, 1074
— mining in Brazil, 1098
Collieries in Durham and Northumberland, their workings
and machinery, 17, 37, 57, 77, 97, 117, 142, 165, 185, 209, 229,
273, 297, 317, 341, 366, 383, 409
Colliery explosions, the late, S. P. Bidder, 78; 299
— explosions—safety-lamps, A. H. Gilmore, 98
— explosions in Monmouthshire, 310
— explosions, and their prevention, 1050; Jules Favet,
1051; 1097; T. Joseph, 1121
— workings—improvements, G. Adcroft, 435
— ventilation, 483
— assurance, 656, 705
— a model—a suggestion, 799
— and outbursts of gas, W. Linturn, 929
— accidents, and the Mine Inspectors, 1097
— lessors, lessees, and managers, our, 1122
Colliers' strike in South Wales, A. Dalziel, 722, 750
Colorado, mining in, 367; R. Tredinnick, 410; H. B. Grose
931, 1098
Commercial wealth, our, R. Tredinnick, 486, 529
Comstock, "the"—mining in California, F. T. Haggard, 843
Cornwall, the mining management—questionable liberality, 151, 187
— mine engine "duty," J. Hocking and Son, 730
— mining—What is the Cost-book Principle? R. Tredin-
nick, 784, 1027
Cornwall, mineral prospects of the North of, A. Smith, 189
— progress of mining in, T. Spargo, 438
— mining in—tin, iron, &c., R. Symonds, 1087
Cost-book System—re-justification of share, 187
Contracting—mining in Cardiganshire, A. Francis, 103
Copper mines as the best investment during the present year,
A. Bennett, 19
— lodes, productive, with what are the strata about min-
eralised, J. Payne, 863; R. Williams, 888; 911, 932,
956, 979; A. Francis, A. H. Maurice, 1004
— trade, &c., A. Bennett, 979, 1027
Commission, our International, 374
Coalbrookdale coal field, denudation of, J. Randall, 667, 703;
D. Jones, 686, 730
Crescent Quartz Gold Mine, California, J. Beeton, 1062
Cross-courses and faults, influence of, &c., R. Knapp, 853
Devon Great Consolidated Mining Company, 23; the recent
meeting, 457, 460, 532
Diamond fields, the South African, R. Vause, 930, 955
Don Pedro North del Rey Gold Mining Company, 167
Drake Walls, and its management, T. Gregory, 437
Dredging machinery—stone-breakers, J. Darlington, 68
Dunlop's patent index, R. Dunlop, 1122
Dynamite, in underground workings, 78, 99; Webb and Co.,
— and blasting powder, J. Darlington, 955 [434, 460
Earth, formation of the, metallic deposits, J. Harris-James,
410, 460, 507; C. L. Greisbach, 438, 484
East Carn Brea, and its management, W. Waddington, 23,
73; T. R. Laws, 44, 83
— Wheel Lovell Mining Company, W. Pascoe, 23; H. Wad-
dington, 79, 103; R. Mitchell, 83
— Terras, 44, 368
— Eureka Mining Company, J. H. Armstrong, 575
— Llangynog Mining Company, J. Thomas, 103; 843, 957
— Cornwall St. Vincent Mine, C. Pengilly, 752
Eberhardt and Aurora Mining Company, 120, 210, 255, 785,
the "Times" and the, 800; 872, 911, 992, 996, 1029, 1098,
1123
Education, industrial and technical, 39; J. Mill, 143, 166,
254; 210; R. Hunt, 230; R. Knapp, 459; 484
— of the mining engineer, D. Jones, 113
— mining, in general, J. Roberts, 186
Electricity, and colliery explosions, 419
— firing blasts by, 642
Emigration and mining—1835 to 1840 p. 1871, R. Tredinnick,
Episodes in mining life, J. P. Endean, 380
Explosion at Cologne, Gebr. Krebs and Co., 750
— at the Moss Colliery, Wigan, 822, 888 [kings, 1172
Fire-damp, destruction of, and extinguishing fires, T. At-
Finance and the mining interests, R. Tredinnick, 596
Fire-damp in coal mines, explosions of, 955
Flintshire, mining in, F. Francis, 144
Floating prospectus—Pyramid Range, 211
Franco Consols, and East Llangynog, J. P. Endean, 1068
Fuel for steam vessels, the best, 410
— for the winter, 1003
— supply, our—compressed peat, 822
Furnaces, our smelting, 318
Gas in metallic mines, W. C. Bew, 799
— manufacture, patent, in Barnet, 1027
— explosions of at collieries, 842, 862, 887, 910
— illumination, rival, 1004
— atmospheric, 862
General Brazilian Mining Company, 733
Geology of Siam, 187
Glamorganshire Mining Company, J. G. Pallin, 1052
Gold fields of Nova Scotia, 120, 210, 277
— ore from Nova Scotia, T. L. Phipson, 120
— floating prospectus—the value of, 210
— fields of Uruguay, 386; H. Bankart, 528
— in South Africa, on the occurrence of, C. L. Greisbach,
411, 460; J. Swinburne, 438
— mining in California, T. Paul, 3, 38
— mining in Brazil, 687
Gold mining in New Zealand, J. Thomas, 800, 989
Gorbett Tin Mining Company, 461, 507
Guallmotzin Mine, Real del Monte, H. Sewell, 98
Gunpowder, superseding in blasting, 18; G. W. Elliott, 58
Grand Duchy of Luxembourg, and the Charleroi metallurgist,
M. Delacour, 1059
Great Wheel Lovell, 127 [ton, 687
— Western Silver Mining Company, Nevada, J. H. Thorn-
— North Laxey Mine, 864, 889, 932
— Laxey Mining Company, T. Thompson, 924
Harmony and Montague Mines, 367 [air, 18
Haulage, underground, or endless rope system v. compressed
Hematite pig-iron manufacture, 778
Hutchins, J., testimonial to, 3; E. Tregellas, J. Roberts, 23
Holmshush and Kelly Bray Mines, J. Buckingham, 161; J.
H. Phillips, 189
Home Investment, J. P. Endean, 127, 151, 211
Hydraulic or water mining in America, 436, 643
Idaho Territory, United States, 59
Imperial Ottoman Mining Company, 321, 367
India, the resources of—Wurroa coal, A. R. Wragge, 956
Inspector of Mines for South Durham, the, 118 [38
Inventions at Exhibitions, protection of, F. W. Campin, 19;
International communism, and trades union, 685
Investment v. Speculation, R. Tredinnick, 667
— the Science of, R. Tredinnick, 1004, 1075
— our home and foreign, W. White, 784, 1034
— profitable, 807
Irish industry, and the food supply, 437
— and foreign mines, on, 843
Iron Kings, the dusky realm of, the J. Randall, 37
— works of Yorkshire, 141, 163, 383, 594, 749
— works—our manufacturing industry, J. Guest, 210
— works and collieries in Derbyshire—the Staveley Com-
pany, 317 [shire, 342
— coal, and lead mining in Montgomeryshire and Shrop-
— smelting, the new process of the Ferrie furnace, 481,
596, 549, 594, 642, 686, 730 [tagn, 1122
— mining in Cornwall, W. Paynter, Jun., 642; R. Mon-
— trade, the Scotch, 667
— trade, the, 1162
— cast, purifying of, J. Henderson, 730
— stone in Anglesey, discovery of, R. Jones, 1027
Kooloo Mines, Puntiaub, 411
Lake Superior, mining on, 39, 460
Lander Hill, and its mines, R. Knapp, 344
Lead mining in Shropshire, 166; C. Emery, 460 [1122
— ores, improvements in dressing, 1108; J. B. Balcombe,
Lillybank Boiler Works, Glasgow, 614 [341
Link motion as applied to locomotive and winding engines,
Lithofracteur, and its safety, 434, 483, 507
London Joint-stock banking, R. Tredinnick, 730
Magnetism of iron ships, 862
Marazion district, the, A. Bennett, 575, 596
Marine engineering on the Clyde, 117
Marmato, mineral wealth of, 387
Metals and their ores—gold, E. Gledhill, 78, 119, 187, 466
— and minerals, on the origin of, A. Allison, 319
Metallic veins, lodes, &c., the formation of, J. Lean, 1171
Metalliferous mining, the influence of counter lodes on, T. A.
Miner's patent safety lamp, 311 [Massey, 617
Mine captains, and their education, 230
— owners, and their lessees, 594, 617
— agents, and their detractors, 618
— costs, and bank charges, 628
Mines Regulation Bill, J. Darlington, 187; 230, 266
— in South Staffordshire, inspection of, 210, 230
— and mining, A. Flaminck, 276
— judicious working of metallic, 595
— of Cardiganshire, and their inexhaustible treasures, A.
Francis, 823; 889
— the management of, M. Heslop, 911 [932, 1155
Miners' wages, R. Symonds, 780; 800, 888; C. Bawden, 896;
— life at the silver mines in Nevada, 1028, 1123
Mineral resources of Ireland, 1122; G. Davey, 1148; 1155
— discoveries in the Callington district, T. L. Phipson, 980
— dressing machinery, self-acting, 507
— prospects of the North of Cornwall, A. Smith, 189
— kingdom, the inaccessible and accessible of the, 367
— wealth, our, what would society do without it? Rich-
Tredinnick, 575
— in veins, formation of, A. Francis, 1052
Mineralised water, utilisation of, 575
Mining as an investment, J. R. Pike, 23; T. Spargo, 120, 144
— accounts, 120
— and brokers' prices, 103, 127
— plans, inaccurate, W. Linturn, 166
— in general—education, J. Roberts, 186
— protective union, 189, 211
— letter from Sandhurst, Australia, 188
— centres and circles, 200
— British—pros and cons, J. P. Endean, 215
— plans and sections, the registration and preservation
of, D. Jones, 254, 318
— progress, glancing from, J. P. Endean, 275, 363
— progress—boring machinery, &c., 483; G. Rickard, 527
— and patent laws—England and Germany, 299
— enterprise, advantages of, J. B. Reynolds, 299
— foreign and colonial, W. Earl, 320, 387
— in Sweden, W. Hoskin, 320, 411
— on the Rhine—the Menzenberg Mining Co., 1123, 1173
— in Cornwall, progress of, Thomas Spargo, 336, 438; J.
Roberts, 687
— in Shropshire, 344; H. J. Baddeley, 437
— in Montgomeryshire, S. Trevelthan, 1143
— industry, spirited and encouraging, 366
— in Colorado, 367, 888, 931
— and its tendencies, 367, 888, 931 [618, 668, 752
— in Cardiganshire, S. Trevelthan, 460, 607, 629, 551, 675,
— in Cardiganshire and Montgomeryshire, A. Francis,
188, 103, 151; 137, 232, 321, 344, 781
— in Wales—its retrospect and prospect, J. P. Endean, 487,
— enterprise in Ireland, 487, 644
— adventure, perseverance and success in, R. Tredinnick,
— Bureau of the Pacific Coast, J. Berton, R. P. Hutchins,
687, 752; H. H. Roche, 843, 931; official endorsement
of, 1173
— home and foreign—gold and silver v. iron, R. Tredin-
nick, 766; R. Knapp, 981
— myerles, 731, 152, 909
— in Prussia, 779
— in North Wales, 1122
— in White Pine, Nevada, 779, 1098; G. W. Pizze, 1123;
— by Act of Parliament, J. P. Endean, 1148
— in Yellow Pine District, U.S., J. White, 800
— in Salt Lake City, Utah, 888
— districts, undeveloped, R. Symonds, 823; W. Brenton,
— reports, how they are made, J. Symonds, 143
— scientific, J. Williams, 823; 979; R. Knapp, 1027
Monmouthshire, mineral wealth of, 103
Murchison v. Batters, 1052
Mynyddogddu Mine, Cardiganshire, 898
Nanteos Consols—mining as carried on in Cardiganshire,
contracting, &c., A. Francis, 38
Nant-y-Mwyn Mine, 151
Nevada, mining in, J. P. Bowe, 19; F. Evans, 58, 232; and
mining in general, H. Sewell, 58; and California, 78; J.
Roberts, 83; J. E. Bowe, 143; and in England, R. Knapp,
144, 596, 688
New Mexico, mining in, 187
— East Lovell Mining Company, 282
— Quebrada Company, 255, 596
— Blencowe Tin Mining Company, 911 [911
— Zealand Quartz Crushing and Gold Mining Company,
Nitro-glycerine, the ten drops of, 459; the transit of, 526
Northamptonshire, mining in, 209
North Treskerby Mining Company, 23, 44, 79, 83; B. Mat-
thews, 151; H. L. Phillips, 189
— Treburget—late Tregardock, 321
— Hendre Lead Mining Company, U. Bromley, 957
Nova Scotia Gold Fields, 293, 359; T. L. Phipson, 411
Ore v. Gas—Mr. Silber's lamp, 78
Ore-stamp, the new steam, W. Symonds, 143
— dressing, E. G. Spitzburg, 232, 275, 320, 366, 411, 456, 484,
527, 551, 618, 643; J. Darlington, 276, 320, 435, 485,
528, 551, 618, 706, 862, 930, 1003, 1051, 1100, 1172
— dressing machinery, self-acting, 1171
Oxyhydrogen gas-light at the Crystal Palace, 980
Pacific Mining Company, 19; and its management, 120
— Coast, mining on, 119, 643
— Slope Mines, the, 1029
Paris Bourse, ten minutes in the, E. H. Wadge, 275
Parys Mountain Mine, 529, 682, 694

Patent Laws—parliamentary proceedings, F. W. Campin,
211; 550, 574; P. Spence, 594
— Law legislation, 231, 254 [344; 367
Petroleum trade, the, J. Rushforth, 348
Pen Allt Mining Company, 300; and machinery, G. Green,
Pentre Colliery explosion fund, 253
Phosphate rocks, new, T. L. Phipson, 318, 574
Pinto Mining Company, 1028, 1036, 1074, 1099
Pneumatic stamps, 706
Polbreon Mining Company, the, 1005
Prince of Wales—Queen, 19, 733, 1052, 1068
Providence Mining Company, S. Higgs and Sons, 108
Puddling-furnace, an improved, 231; boilers, 526; mechani-
cal, 584; B. Rogers, 929
Pyramid Range Company, 255
Queen, King, and the Virtuous Lady, T. J. Barnard, 44, 83,
151, 240, 293, 568, 692, 836, 897, 1132; 421, 800
Quicksilver mines of Almaden, Spain, H. Sewell, 143
Railway accidents, avoiding inconvenience from, 18
— arrangements, novel, 750
Rating of coal mines in Staffordshire, 113
— taxing levying, 229, 343, 386, 419
— of mine dues, R. W. Childs, 1051
Repery Tin Mine, T. Parky's reports on the, 121
Rhodesmor Mine, and its management, 1052 [826
Rivers, the pollution of, A. Bassett, 606; Anderson and Sons,
Roman Gravel Mine, 121; A. Waters, 145; R. H. M. Jack-
son, 584; B. Rogers, 929 [man, 848
Roofing slate and kilns, 231
Rosedale iron mines, the, J. Tonkin, 345
Royal Cornwall Polytechnic Society, 594
— Commission of Scientific Instruction and the Royal
School of Mines, 750
— School of Mines, L. Gordon, 779, 799
Safety-lamps, a perfect look for, J. H. Garrett, 343; Patent
"Protector," T. Harrison, 842
Saturn Silver Mining Company of Utah, A. P. Stanford, 668
Science and the empiric art inseparable in mining, 867; A.
Knapp, 527, 551, 751; 574
Science of Investments, R. Tredinnick, 752, 863, 911, 931, 1004
Sewage, utilisation of by precipitation, J. G. Barry, 620
Shelton Clay and Tin Mining Company, 321
Shropshire, mining in, 344; H. J. Baddeley, 437
Shipbuilding on the Clyde, 186
Siam, geology of, 187, 232
Silkstone coal field, the, 57
Silksworth Colliery, winning, and its machinery, 253
Silver mining in England—scientific researches, T. J. Bar-
— mining in Nevada, &c., R. Knapp, 1008 [nard, 3

INDEX TO THE MINING JOURNAL.

- Australian Patents, 986** [ment Company, 534
Australian and New Zealand Dividend Gold Mines Invest-
ment Company, 534
Ayrone Ironworks, Middleborough, 433
Bankers' patent furnace for roasting silver ores, 801
Bessemer patents, new, 768
— steel, the raw materials for, 1126
Birmingham and the Black Country, 37, 77, 97, 117, 141, 185,
297, 482, 525, 573, 641, 665, 686, 705, 749, 977, 1001, 1169; N.
Hingley, 1027
Birdseye Creek Gold Mining Company, formation of, 9
Bilbao Iron Ore Company, formation of, 1041 [ing, 629
Blast-furnaces, new method of tapping, used for lead smelt-
Bleasdale Concessions Mining Company, formation of, 565
Bog Mine, re-working of, 308, 496 [tion of, 1041
Boscawell Downs Tin and Copper Mining Company, forma-
tion of, 1041
Boilers, the explosion of, 145 [&c., 239; 576
— explosion, fatal, at the North Lincolnshire Ironworks,
Briton Ferry Collieries Company, formation of, 915, 1055
Braganza Gold Mining Company, formation of, 833
Brazil, industrial progress in, 790
Britannia Ironworks, Middleborough, 457
Brynna Company, formation of, 877
British American, 1027 [formation of, 877
— Indian, and Colonial Agency and Co-operative Society,
Burleigh rock drill, the, 135, 768, 1138, 1163
Burro Mines, the, 134, 152 [formation of company, 257
Bureau of Mines and Mining Statistics of the Pacific Coast,
Budnick Consols Tin Mining Company, reconstitution of, 915
Burra Burra Mine—its history, 938 [1100
Burgh's Patent Warranted Mining Steam Pump and Boiler,
Cape, the, and the diamond fields, 104
Carlton Ironworks, re-working of, 519
Canada, mining in, 300, 347
Carmanthen Silver-Lead Mining Company, formation of, 789
Cardiff and Midland European capitalists, J. Berton, 135
Cardiganshire Old Bog Mining Company, formation of, 1059
Carnell Mine, Zennor, re-working of, 668
Castlegate Tin Mining Company, formation of, 813
Castle Dykes Iron Company, formation of, 1161
Canadian Titanic Iron Company, formation of, 1041 [1157
Camp Flydd Silver Mining Company, formation of, 921, 964
Carn Galver Tin Mining Company, formation of, 657
Cosana Sulphur Company, 915
Central City Mining Company, formation of, 554
Champion Gold and Silver Mines Company of Colorado, 923
Chesford and Derbyshire Institute of Mining, Civil, and
Mechanical Engineers, 500
China, the mineral resources of, 288
Chilverton mining district, the, 240
Chionates Mining Company, re-organisation of, 564, 832, 852
Chlorine process, the, 451; Mr. Crosby, 723
Clara Consols Mining Company, 406 [1140, 1169
Cleveland, the past, present, and future, 941, 1002, 1026, 1050,
Clifton Silver Mining Company, formation of, 628, 657
Coal trade, the—annual review, 12
— trade of Birkenhead, 815
— a new and remarkable, 33
— search for at Sandwell Park, 51; at Huntingdon, 586
— cheap for Ireland and the Western Highlands, 70
— fields, great yield of the American, 70
— cutting machinery, 71, 586; W. H. Chambers, 791;
— Ince and Barker, 947
— mines, casualties in, Mr. Hermon's, M.P., prizes for
— essays on prevention of, 1049
— utilisation of small, 91, 203; H. W. Wood, 438
— in New Zealand, 91, 110, 922, 1138
— measures of Australia—"Wollongongite," 178; 970
— trade, the Nova Scotia, 179, 223
— trade of Labrador, 761
— question in Austria, 179, 553
— fields in Mid-England, 202
— fields of South Staffordshire, the extension of, 212
— in France, 222, 610
— fields, the Somersetshire—lawsuit, 233
— and iron trades in India, 247, 475
— and iron in Virginia, 880
— lecture on, J. Warburton, 274
— and the chemists, 346
— trade of South Wales, 202
— paint, a new, 461
— the supply of, to London, 476, 500, 512
— strike in Wales, 499
— and war, 568 [of, 544, 707, 722, 742, 868, 959
— fields, our, Royal Commission on extent and duration
— and gold in British Columbia, 785
— Mines Regulation Bill, 587, 629
— resources and coal mining in America, 597
— resources of Cape Breton, 1101
— compressed slack—cheap fuel, 644
— Indian, 659
— English, abroad, 1114
— wasted in working, &c., 743
at Panama, 855
Colliery working, caution to underlookers, 12
— gases and colliery ventilation, 70, 222
— insurance, 621; formation of company, 636, 659
— inspection in America, 708
— the deepest in America, 708
— explosions—Renshaw Park, 31; Hedgesford, 72; Pentre
Colliery, 178, 247; Victoria, 204; Lyceot, 223; Springs
Colliery, 1029
— explosions in Derbyshire and Staffordshire, 50
— explosions in South Wales, 202, 266, 310 [1025
— disasters, 970; and their prevention, T. Joseph, 1019,
— accidents—falls of roof and coal, 1068
— accident relief fund and assurance, 223, 246, 210, 904
Collier, the—as he is painted, and as he is, 815
Collieries, ventilating our, 334; Baker v. Turner, 1020; 1043
— abandoned, 1021
— Government inspection of, 902
Copper trade, the, and its prospects, Vivian, Younger, and
Bond, 13; 50, 186; of South America, 147, 267
— trade, the railway, 518
— ore sales, 33, 391, 587, 717, 875, 959, 1162
— in Austria, 619
— the price of, 766
College of Physical Science, 425, 744
Colorado, mining in, 39, 439, 576 [of, 467
— United Gold and Silver Mining Company, formation
Comstock lode, proposed subsidy to the, 179; a day at the,
J. A. Whitney, 1029 [716, 735, 759, 783, 807, 828, 847
Companies, the registration of new, 603, 627, 651, 671, 691,
Cornish rocks, analyses of, J. A. Phillips, 169
— notes, J. Y. Watson, 291
Cost-book System—relinquishment of shares, 173
— Principle—mining law, 498
Colonial Trusts Corporation, formation of, 1017
Crescent Gold Mining Company, formation of, 1065
Crocodon pyrites, treatment of, 953
Cwm Lery Lead Mining Company, formation of, 357, 877
Cwm Dyfor Copper and Silver Lead, 917
Dan's mechanical puffer, 1167
Death rate in collieries, what does a high mean, 1114
Derbyshire mineral customs, the, 10
Devil's Bridge Railway Company, formation of, 853
Devon Great Consols Copper Mining Company, 461
Diamond Fields of the Cape, 104, 359
— fields of the Lower Vaal, E. T. Cooper, 190; 1029
Differential friction, the, 104
Dingy's pulveriser, public trial of, 191
Dividends paid on British Mines in 1869 and 1870, 4
Dolcoath Mine—its history, 303
Down district, the, 200
Dominion of Canada Oils Refinery Company, formation of,
110, 201, 211, 332, 359, 519, 536, 568, 629, 696, 740, 815
— Pacific Railway, 697
Drills, the Burleigh and the Diamond, 488, 554
Dudley and Midland Geological Society, meeting of, 505
Earth air, and water, J. Y. Watson, 3
— Internal temperature of the, 865
East's Shipbuilding and Engineering Company, 813
East Terras Mine, 368, 520
— Sheboygan Silver Mining Company, formation of, 428
— Rhylatog Mining Company, formation of, 448 [607
— East Cwm Vron Lead Mining Company, formation of, 721
— Cornwall St. Vincent Mining Co., formation of, 721
— Boscawell Tin Mining Company, formation of, 789
— and West Junction Railway Company, 877
Eberhardt and Aurora Mines, progress of, 68, 152, 264, 882
Education of mining engineers in South Staffordshire, 10, 90
— Industrial and technical, 30, 310, 379, 426
— technical in America, 1090
Emma Silver Mining Company, formation of, 993, 996, 1065
English, Foreign, and Colonial Mines Co., formation of, 657
Explosive Silver Mining Company, 1017, 1041
Eureka and adjacent districts, Nevada, 1068 [of, 901, 921
Excelsior Gold Washing and Hydraulic Works Co., formation
Exchequer Gold and Silver Mining Co., formation of, 853
Exhaustion as a power for underground purposes, 1121
Explosives, new, for blasting, 462
— legislation on, 426, 459, 742
— agents on, Prof. Abel, 709
— compounds, recent improvements in, P. F. Nurey, 886
Explosion, another fearful, at Wigan, 781
— Steam-gauge gun-action, 791, 854
— Moss Colliery, Wigan, 827, 835, 849, 880
Factory and Workshops Act, and mining and technical edu-
cation, 514
— Ferrie hot-blast furnace, the, 135
— Fires, a new method of extinguishing, 1099
Flagstaff Mine, Utah, 1064, 1124, 1136 [536, 852
Florence and Tonkin Mining Company, formation of, 425
Foreign mining companies—Atlanta (new) Silver, 828; Al-
mada and Tinto, 904; Birdseye Creek, 533
Forest of Wyre coal field, 312
Fuel, pulverised, 652
Furnace, the octagonal smelting, 145; J. M. Stanley, 277
— Backhart's patent, 801
— blast, improved, 390
Furnaces and fire-clays, 316
— patent puddling and heating, Howatson's, 266
Furze Hill Tin Mining Company, formation of, 133
Gas-furnace, the heat-restoring, 621
— for villages and country mansions, 1116
— apparatus, domestic, Mr. Symes, 1153
Geology, lectures on, W. Madeley, 99, 122
— of Cambridge, 345
— the study of, D. Page, 935
George Town (British Guiana) Gas Co., formation of, 877
Germany, mining industry in, 741
Gladstone, Mr., on the Miners' Bill, 819
Glasgow and Cape Breton (Nova Scotia) Coal and Railway
Company, formation of, 109
— manufacturing industry of, 614, 724, 841
Gnoll Colliery, re-opening of, 132, 157, 889
Gold fields, the South Australian, W. J. Peterswald, 322
— fields, the South African, 388; the Orinoco, 753
— mines of Victoria, 388
— mining in Brazil, Dr. E. Lials, 598; 612
— nuggets, formation of, C. Wilkinson, 753
— ore of Nova Scotia, Dr. T. L. Pulpson, 753
— mining in Australia, 784; fields of, 206
— and silver, and new process for separating, 801
— and silver, separation of, with protosulphate of iron,
fields, the Bendigo, 867 [Dr. F. Guizkow, 809
— mining in New Zealand, 889
Golden United Mining Company, formation of, 157
Government Inspection of Coal Mines—Inspectors' Reports,
Great Saffell Mining Co., formation of, 244 [990, 959
— Northern and Midland traffic dispute, 390
— Moelwyn Slate Quarries—sale of effects, 345
— Western Silver Mining Company, formation of, 449
— Wheal Vor Mining Company, 496 [of, 741
— East Foxdale Silver-Lead Mining Company, formation of,
Laxey Mining Company, 902
Mountain Silver-Lead Mining Co., formation of, 1041
Green Hurst Lead Mine, 129
Greece, mining in, 653
Grylls's Annual Mining Sheet, 619
Hallow Beam Mining Company, formation of, 9
Hamilton Smelting Company, formation of, 697
Harlech Lead and Sulphur M.C., formation of, 109, 497
Harmony and Montague Mines, 268, 496, 516
Hematite ores, working of, T. Hainsworth, 737
Helvellyn Mining Company, formation of, 376
Heraclea Coal Mines, the, 498 [clents, 1049
Hermon, E. M.P., premiums for preventing colliery acci-
— Hitehins, Jehu, testimonial to, 736
Houses for colliers and workmen, 91
Hudson River Copper Company, 41
Hydraulic gold mining in California, 191
Ibaho Territory, United States of America, 4
Illinois Gold and Silver Mining Company, 984
India, mining in—the Punjab, 147
— railways—the fuel question, 722
Industrial partnerships, 246
Independence Gold Mining Company, formation of, 765
Institution of Civil Engineers, conversation of, 505, 978
Inventors, and specifications of inventions, 319
Iron trade, the Scotch, of 1870, 10, 652
— trade, the future of the, G. Bailey Toms and Co., 10
— purifying, and making steel from common iron—the
Sherman process, 11
— and steel, effects of cold on, 70, 110, 128
— and coal trades of Shropshire, 91
— trade, and arbitration, 110
— and Steel Institute, progress of, and excursions of the,
110, 247, 266, 759, 768, 774, 790, 797, 821, 841, 861, 885,
— trade, the future of, of Sussex, 217 [954
— railway, in the United States, 223, 1043
— in Oxfordshire, 224
— smelting, Ferrie's new process of, 412, 686
— the American demand for, 439
— trade, further co-operation in the, 512
— trade of the world, 678
— railway, in Canada, 768, 834
— and coal trades, the disputes in, 814
— trade, masters and men in the, 878
— railway, in India, 878, 916
— railway, in Russia, 902, 1067
— workers, the, and the Board of Arbitration, 922
— ores of the county Antrim, 935
— ore, further discoveries of in Ireland, 971
— and the iron trade, 1002
Ironstone slag, a new road material, 71 [1073
Ireland, industrial resources of, 492; mineral resources of,
International Exhibition, annual, E. Hall, 266
I. X. L. Gold and Silver Mining Company, formation of, 993
Joint-stock companies, annual return of, 1138
Kansas Mining Company, formation of, 789
Kilbarney Colliery, Derbyshire, 433
King Arthur Silver Mine, 104; D. Forbes, 173; 357
Langdale Chemical Manure Company, formation of, 856
Lancaster Lead and Zinc Mining Company, formation of,
Lander Hill mines, how to make them pay, 323 [813
Lead, the delivering of, Mr. Flach, 91
— mining in Cardiganshire, 610, 635
Lectures at the Royal School of Mines, by W. Smyth, 1029,
1053, 1075, 1101, 1125, 1149, 1170 [of, 1017, 1019
Leicester and Loughborough and Smelting Company, formation
Levant Mine, St. Just, proposed re-working of, 260
Lilleshall Iron and Coal Mines, Salop, 821
Lincolnshire, mining in, 246
Liquid fuel, 947
Lisbon Steam Tramways Company, formation of, 585
Little York Mining Company, 413, 424
Lithofracture as a blasting agent, 404, 434, 500
Ligney and Ligoose Iron Ore Company, formation of, 1161
Landlocked Wind Van Mining Company, progress of, 308
Lyneleys Lead and Copper Mining Company, formation of,
784
London and Thames River Golden Crown Company, 508, 332
— International Exhibition, 389
Louth and Lincoln Railway, 1089
Lustrum Ironworks, and the co-operative system, 566
Machine employed at the silver mines of Cerro de Pasco,
Pern, T. D. Steel, 461
Machine Tunneling Company, formation of, 497
— puddling, 834
Magnetism as a new motor, 217
Mammoth Copperopolis of Utah, formation of, 1089
Malaga Silver-Lead Company, formation of, 812, 921, 1109
Malpaga Gold Washing Company, formation of, 565
Mari bed, the great, at China, 254
Marbella Iron Ore Company, formation of, 1089
Meuzenberg Mining Company, formation of, 813
Metalliferous Mines, inspection of, 348 [462, 487, 530
— deposits and underground temperature, W. J. Henwood,
Metal trade—annual review, 1154
Metallurgical process, special, 954
Midland coal field—the Barnsley seam, 366
Midland Mineral Oil Company, formation of, 1041
Mid-Cumberland Mining Company, 1083
Mineralogy of Cornwall and Devon, J. H. Collins, 1006
Mineral veins, valuation of, E. J. Chapman, 60
— and metal statistics, 222
— surface damage through removal of, 402
— wealth, lost to France, 413
Hill Silver Mines Company, formation of, 541
— wealth of Australia, 553
— traffic on railways, 607
Mining companies, new, during 1870, 3
— plans and sections, the registration and preservation
— by machinery, 284, 507 [of, 203, 215, 239, 268
— and manufacturing College in Newcastle, 423
— scientific, 518
— in Greece, 553
— legislation, 603, 742
— enterprise in Chili, 723
— in Lincolnshire, 713
— tools—their manufacture and uses, 801
— in Cornwall—improved prospects, 878
— in Montgomeryshire, 940
— in Northamptonshire, 1002
— Notes from North Wales, 1054
— law—Cost-book System, 1066
— Review of in 1871, 1160
Miners, searching for entombed, 358, 498
— assurance of lives, 518
— Association, and the Mines Bill, 792
— entombed, 994
— Conference, meeting of, 1006
Mines Regulation Bill—meeting of Committee, 59, 134; 146
158, 178, 222, 225, 245, 266, 634, 635; thin coal mines,
220, 238; 428; safety-lamps, &c., 566; 689, 1049
— in London, our, 659
Morrah Cor's Tin Mining Company, formation of, 993
Morra da Gloria Gold Mining Company, formation of, 48
Motive power without cost, Mr. Tomasi, 645, 834
Mont Cenis Tunnel, the Great, 597, 865
Money Order Bank, formation of, 1092
Morrell, Sir R., Bart., the late, 916
Mystery of the Vital Element, R. H. Collyer, 954
Nant-y-Ffryth Lead Mining Company, formation of, 357
Nant-y-Glo and Blaenau Ironworks Company, formation of,
657, 921
Nant-y-Blaidd Silver-Lead M.C., formation of, 945
National Conference of Miners, meeting of, 39
— resources, our, and how they are wasted, W. Hoyles, 167
— loan, the United States, 201
New Mexico, the resources of, 79, 91, 110, 196, 760
— Wheal Speedwell, 469
— Wheal Charlotte Mining Company, formation of, 665
— Hingston Tin Mining Company, 1058
— Zealand, mineral resources of, J. Thomas, 801; pro-
gress in, 1114
— Courtenay Mining Company, formation of, 993
— Trevelloe Tin Mining Company, formation of, 1017
Nevada, mining in—the White Pine District, 428
— Land and Mining Company, O. Hofmann, 457
— and its mines, 1005
— mining in—visit to Treasure Hill, 954
Newport Rolling Mills, Middleborough, 481
North Wales, mining in, 111; Ordnance and Geological Sur-
vey, 552; ironworks and collieries of, 1073, 1098
— Allt-y-Crib Mine, 215
— American Gold Mining Company, formation of, 517
— Pool Mining Company, formation of, 641
— of England, manufacturing industry of, 641
— Kingston Mining Company, formation of, 945
— Fleet Chalk Quarries Company, 969
— Rosewarne Mining Company, formation of, 1041
Notes from the West of England, 474
Nova Scotia, the mineral resources of, 248
Northern Mining Engineers, and the South Staffordshire and
East Worcestershire Institute, 798
Northamptonshire, mining in, 652
— iron trade of, 861
Oil, as a substitute for gas, A. M. Silber, 30; the Canadian
lubricating, 234; wells in Canada, 800
— trade, the Scotch mineral, 409
Old Treburrget Tin Mines, re-working of, 377, 585
— Bottle Hill Mining Company, 1016 [chine, 104
Ores, crushing and dressing of, Mr. Krom's improved ma-
— concentrating by air and water, W. Hooper, 1126
Orinoco Gold Mining Company, 356
Pacific Coast, mining on the, 123
Parya Mountain Mine, the, 356
Patent Law question, the, 136, 160, 203, 360, 413, 597, 768
— Law, an American view, 745
— system, the American, 887
Panama coal mines, 639 [801
Peat as a fuel for locomotives, 104; and peat charcoal, 620,
Pencroise Consols, the re-working of, 360
Pennery Mining Company, formation of, 308
Perran Consols Tin Mining Company, 969
Perran Wheal Vivian, re-working of, 265, 496
Pen-yr-Henblas Lead Mining Company, formation of, 697
Physical Science, Jersey, 1019, 652, 946
Pinto Silver Mining Company, formation of, 377, 1109
Pittsburg Gold Mining Company, formation of, 629, 902, 912
Pitch blends of Nevada, 1019
Poltaco Marble Company, formation of, 28
Polture of rivers, 498
Powell United Mines Company, 377
Prusian Mining and Ironworks Company, 1114
Puke Lead Mines, Jersey, 1019, 652, 946
Pulverisers, Dinger's patent, 580
Pump, a new, for raising water, 346
Puddling, Dank's mechanical, 1157
Puddling and heating furnace, new patent, Mr. Howatson,
797; the Newport, 798
— by machinery, 1097
Queenborough Chemical Company, formation of, 657, 725
Quicksilver mines of India, 123, 276
Railway iron in the United States, 223, 854
— iron in Russia, 1065
— communication with Wales, improved, 586
— in South America, and the English iron trade, 634
— communication with Shropshire, 678
— Amalgamation, 834
— in Australia, 906
— trade for India, 1129 [lett, 1029
— system, our, reviewed in reference to invasion, R. Mal-
Rails, standard—iron and steel, 290
Reperity Tin and Copper Mine, progress of, 68
Redington Quicksilver Company, formation of, 853, 1040
Richmond Consolidated Mining Company, 677, 740
Richards, J., presentation of address to, 543
Richard Green, Permanent Building Society, 1007
Rivers, the pollution of, 498
Roman Gravel Mines, progress of, 68, 83, 203
Royal Cornwall Polytechnic Society, report of, 552, 731
Russian sheet-iron, the manufacture of, 620
Russia Copper Company, formation of, 677
Safety-lamps, proposed registration of colliers', 542; R.
Brown's new, 700; testing of, 708; Mr. Goebel, 849; W.
Lintern, 1109
Sarawak, on the mining district of, Capt. J. Lanyon, 1149
Sand Jute, cutting and drilling by, 329
Salt Lake City, Utah, visit to the, 889
Saturn Silver Mining Company of Utah, formation of, 633
School of Physical Science in Newcastle, 224
Science of Investments, the, 729
Schooner Pond Coal Company, formation of, 721
Scotland, the manufacturing and mineral industry of, 229,
286, 437, 603, 641, 703, 729, 748, 773, 811, 1001, 1028, 1073, 1145
Sheepbridge Company, Derbyshire, 433
Shropshire mining district, the, 308; inventors and inven-
tions, 724
Siam, the geology and mineral resources of, 203
Silkstone Fall Colliery Company, formation of, 813 [104
Silver ores, improved treatment of—the Stetefeldt furnace,
— processes in the Pacific States, 147
— and its manufacture, Edward's process, 311
— and lead, separation of, C. S. Eyster, 613
— mine, how an honest was sold in London, 1102
— refining, Dr. F. Gutzkow's method of, 576
— Hill Consols Mining Company, formation of, 1'65
— Plume Mining Company, formation of, 697; 940
— Star Mining Company, formation of, 632
Slate trade in America, 346
Smoke nuisance, prevention of the, 145; J. M. Stanley, 277;
Snowdrift Silver Mining and Reduction Company, forma-
tion of, 480, 555
Société Française des Asphaltes, formation of, 915
Southwark and City Subway Company, formation of, 697
South Wales Coal and Metal Markets, meeting of committee,
— Wales mineral basin, the, 110 [121
— Aurora mine, the, 359, 449, 740 [448, 496
— African gold fields, 388
— Roman Gravel Mining Company, formation of, 424,
Wendron Tin Mining Company, formation of, 425
— Lisburne Lead Mining Company, formation of, 721
— Utah Mining Company, formation of, 993
Southern Railway of Ireland Company, formation of, 377
Southall, Ealing, and Shepherd's Bush Tram Railway Com-
pany, formation of, 147
Steam improvement in, J. Walker, 346, 438
Steam-Boiler Legislation—Conference on, 51, 160, 215, 346,
360, 697 [1162
— shipbuilding on the Clyde, 553; in the United States,
— boiler explosions, L. E. Fletcher's report, 868
Steam-power meter and indicator, 390
Steam-hammer, a new, Messrs. Brinjes and Son, 192
Steam communication and engine power for isolated mines,
Steam-stamps, Willoughby Brothers, 323 [1139
Steel, experiments on, D. Kirkaldy, 71
— for constructive purposes, 333
— faecal rails, 379
Stetefeldt furnace, the, 104
Stranton Iron and Steel Company, formation of, 1089
Strike of the Scotch puddlers, millmen, &c., 50, 110; the
South Wales, 634; 854 [Tarn, 122
Students' Guide to the Practice of Measuring, &c., E. W.
Strontian, Argyllshire, on the minerals of, 390
Submarine telegraph investments, 620, 652
Subterranean world, the, 865
Surveying Instruments, new, 729 [of, 565
Swansea Smelting and Silver Mining Company, formation
— Bituminous Colliery and Fire-Clay Company, forma-
tion of, 921
Tamar Fire Brick and Clay Company, formation of, 333
— Consols Silver-Lead Mining Co., formation of, 535
Taliesin Mining Company, formation of, 585
— Technological Dictionary, Dr. O. Mothes, 576
Teign Manganese Mining Company, formation of, 48
Telegraph signalling in collieries, R. Miller, 158
Testimonial to Mr. P. Cooper, of Holmes Colliery, 626